

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 63-059213

(43)Date of publication of application : 15.03.1988

(51)Int.Cl.

H03K 7/08  
H02M 7/48  
H02P 3/22  
H03F 3/217

(21)Application number : 61-203308

(71)Applicant : TOSHIBA CORP

(22)Date of filing : 29.08.1986

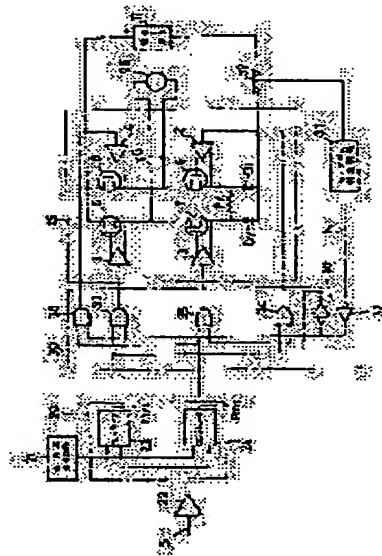
(72)Inventor : SAGARA YUJI

## (54) PULSE WIDTH MODULATION CIRCUIT

## (57)Abstract:

**PURPOSE:** To absorb the energy generated at the time of stopping a motor or the like with a good response by providing an energy absorbing means where a prescribed switching element among switching elements and an energy absorbing element are connected to a load to form an annular loop circuit at the load operation stop.

**CONSTITUTION:** A drive gate circuit 30 constitutes an energy absorbing means together with a motor drive control circuit 31 and a relay switch 32 and the energy absorbing means forms an annular loop circuit at the stop of the motor 26 to absorb the regenerative energy of the motor 26. The closed loop circuit comprising the motor 26, power transistors 6, 7 and a regenerative  $R_k$  is formed and the current by the counter electromotive force generated at the stop of motor flows in the annular loop circuit and the energy is converted into a heat energy in the resistor  $R_k$ . That is, the regenerative energy produced at the stop of the motor 26 is converted into a heat and absorbed, resulting that the electric braking action which rapidly stops the drive of the motor 26 is applied.



## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's]

decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office